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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Gregory J. Faanes et al.

Title: DECOUPLED VECTOR ARCHITECTURE

Docket No.: 1376.699US1

Filed: August 18, 2003

Examiner: Unknown

Serial No.: 10/643,586

Due Date: N/A

Group Art Unit: 2186

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

We are transmitting herewith the following attached items (as indicated with an "X"):

- ☒ A return postcard.
- ☒ A Communication Concerning Related Applications (2 pgs.).
- ☒ An Information Disclosure Statement (2 pgs.), Form 1449 (2 pgs.), and copies of 8 cited documents.

If not provided for in a separate paper filed herewith, Please consider this a PETITION FOR EXTENSION OF TIME for sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
Customer Number 21186

By: Thomas F. Brennan
Atty: Thomas F. Brennan
Reg. No. 35,075

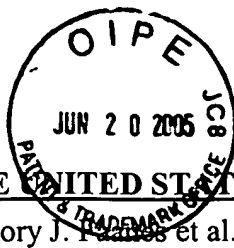
CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 16th day of June, 2005.

JAMES KANYUSIK
Name

James Kanyusik
Signature

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
(GENERAL)

S/N 10/643,586



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Gregory J. Poulos et al.

Examiner: Unknown

Serial No.: 10/643,586

Group Art Unit: 2186

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Title: DECOUPLED VECTOR ARCHITECTURE

COMMUNICATION CONCERNING RELATED APPLICATIONS

MS Amendment

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Applicants would like to bring to the Examiner's attention the following related applications in the above-identified patent application:

| <u>Serial/Patent No.</u> | <u>Filing Date</u> | <u>Attorney Docket</u> | <u>Title</u> |
|--------------------------|--------------------|------------------------|--|
| 10/643742 | August 18, 2003 | 1376.697US1 | DECOUPLED STORE ADDRESS AND DATA IN A MULTIPROCESSOR SYSTEM |
| 10/643585 | August 18, 2003 | 1376.700US1 | LATENCY TOLERANT DISTRIBUTED SHARED MEMORY MULTIPROCESSOR COMPUTER |
| 10/643754 | August 18, 2003 | 1376.724US1 | RELAXED MEMORY CONSISTENCY MODEL |
| 10/643758 | August 18, 2003 | 1376.729US1 | REMOTE TRANSLATION MECHANISM FOR A MULTINODE SYSTEM |

10/643741 August 18, 1376.733US1 MULTISTREAM PROCESSING
2003 MEMORY-AND BARRIER-
SYNCHRONIZATION METHOD AND
APPARATUS

Respectfully submitted,

GREGORY J. FAANES ET AL.

By Applicants' Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
P.O. Box 2938
Minneapolis, MN 55402
(612) 373-6909

Date June 16, 2005 By Thomas F. Brennan
Thomas F. Brennan
Reg. No. 35,075

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 16TH day of June, 2005.

JAMES KAWYUSIK
Name

James Kluth
Signature



S/N 10/643,586



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| | | | |
|-------------|-------------------------------|-----------------|-------------|
| Applicant: | Gregory J. Faanes et al. | Examiner: | Unknown |
| Serial No.: | 10/643,586 | Group Art Unit: | 2186 |
| Filed: | August 18, 2003 | Docket: | 1376.699US1 |
| Title: | DECOUPLED VECTOR ARCHITECTURE | | |

INFORMATION DISCLOSURE STATEMENT

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Information Disclosure Statement. However, if an Office Action on the merits has been mailed, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Information Disclosure Statement considered.

Pursuant to 37 C.F.R. 1.98(a)(2), Applicant believes that copies of cited U.S. Patents and Published Applications are no longer required to be provided to the Office. Notification of this change was provided in the United States Patent and Trademark Office OG Notices dated October 12, 2004. Thus, Applicant has not included copies of any US Patents or Published Applications cited with this submission. Should the Office require copies to be provided, Applicant respectfully requests that notice of such requirement be directed to Applicant's below-signed representative. Applicant acknowledges the requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

GREGORY J. FAANES ET AL.

By their Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
P.O. Box 2938
Minneapolis, MN 55402
(612) 373-6909

Date June 16, 2005

By Thomas F. Brennan
Thomas F. Brennan
Reg. No. 35,075

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JAMES KAWYUSIK
Name

James K. Kawyusik
Signature

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE

STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

| | |
|----------------------|-----------------|
| Application Number | 10/643,586 |
| Filing Date | August 18, 2003 |
| First Named Inventor | Faanes, Gregory |
| Group Art Unit | 2186 |
| Examiner Name | Unknown |

Attorney Docket No: 1376.699US1

US PATENT DOCUMENTS

| Examiner Initial * | USP Document Number | Publication Date | Name of Patentee or Applicant of cited Document | Filing Date If Appropriate |
|--------------------|---------------------|------------------|---|----------------------------|
| | US-2004/0044872 A1 | 03/04/2004 | Scott, S. L. | 09/04/2002 |
| | US-2004/0162949 A1 | 08/19/2004 | Scott, S. L., et al. | 02/18/2003 |
| | US-2005/0044128 A1 | 02/24/2005 | Scott, S. L., et al. | 08/18/2003 |
| | US-2005/0044340 A1 | 02/24/2005 | Sheets, K., et al. | 08/18/2003 |
| | US-6,308,250 | 10/23/2001 | Klausler, P. M. | 06/23/1998 |
| | US-RE28,577 | 10/21/1975 | Schmidt, William G. | 11/21/1973 |

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
|--------------------|----------------------|---|----------------|
| | | ABTS, D., "So Many States, So Little Time: Verifying Memory Coherence in the Cray X1", <u>Parallel and Distributed Processing Symposium</u> , (April 22, 2003), 11-20 | |
| | | GHARACHORLOO, K., "Two Techniques to Enhance the Performance of Memory Consistency Models", <u>Proceedings of the International Conference on Parallel Processing</u> , (1991), 1-10 | |
| | | HENNESSY, J. L., <u>Computer Architecture A Quantitative Approach</u> , Second Edition, Morgan Kaufman Publishers, Inc., (1996), 39-41 | |
| | | SCOTT, S. L., "DECOUPLED STORE ADDRESS AND DATA IN A MULTIPROCESSOR SYSTEM", <u>US Patent Application Ser. 10/643,742</u> , filed August 18, 2003 (1376.697US1), 27 Pages | |
| | | SCOTT, S. L., "LATENCY TOLERANT DISTRIBUTED SHARED MEMORY MULTIPROCESSOR COMPUTER", <u>US Patent Application Ser. No. 10/643,585</u> , filed August 18, 2003 (1376.700US1), 17 Pages | |
| | | SCOTT, S. L., et al., "MULTISTREAM PROCESSING MEMORY-AND BARRIER-SYNCHRONIZATION METHOD AND APPARATUS", <u>US Patent Application Ser. No. 10/643,741</u> , filed August 18, 2003 (1376.733US1), 143 pages | |
| | | SCOTT, S. L., et al., "RELAXED MEMORY CONSISTENCY MODEL", <u>US Patent Application Ser. No. 10/643,754</u> , filed August 18, 2003 (1376.724US1), 144 Pages | |

EXAMINER

DATE CONSIDERED

Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

| | |
|----------------------|-----------------|
| Application Number | 10/643,586 |
| Filing Date | August 18, 2003 |
| First Named Inventor | Faanes, Gregory |
| Group Art Unit | 2186 |
| Examiner Name | Unknown |

Sheet 2 of 2

Attorney Docket No: 1376.699US1

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
|-----------------------|--------------------------|---|----------------|
| | | | |
| | | SHEETS, K., et al., "REMOTE-TRANSLATION MECHANISM FOR A MULTINODE SYSTEM", <u>US Patent Application Ser. No. 10/643758, filed August 18, 2003 (1376.729US1), 42 Pages</u> | |

EXAMINER**DATE CONSIDERED**

Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional) ² Applicant is to place a check mark here if English language Translation is attached